

Closure Report

RECEIVED

By OCD; Dr. Oberding at 9:52 am, Mar 24, 2015

Site Description

Site Name:	Mescalero SWD
Company:	Oxy Permian Ltd.
Legal Description:	U/L K, Section 14, T10S, R32E
County:	Lea County, NM
GPS Coordinates:	N 33.44252° W 103.64709°

Release Data

Date of Release:	05/21/2012 and 05/23/2012
Type of Release:	Oil and produced water
Source of Release:	Tank overflow and plunging packing failure
Volume of Release:	2 bbls oil, 64 bbls produced water and 1 bbl oil, 109 bbls water
Volume Recovered:	35 bbls and 99 bbls

Remediation Specifications

Remediation Parameters:	Excavate the entire leak to a depth of 5 feet. Excavate an additional 5 feet (10' total) in the area of SP2. Install a compacted clay liner in the entire leak area and backfill the site with clean soil.	
Remediation Activities:	01/20/2015 to 02/14/2015	
Plan Sent to OCD:	04/25/2014	Meeting: Cliff Brunson and Geoffrey Leking
OCD Approval of Plan:	04/25/2014	Meeting: Cliff Brunson and Geoffrey Leking
Plan Sent to BLM:	n/a	n/a
BLM Approval of Plan:	n/a	n/a

Supporting Documentation

Initial C-141	Signed 06/07/2012
Final C-141	Signed 02/27/2015
Site Diagram	May 2012
Groundwater Plot	50'
TOPO Maps	May 2012
Lab Summary	06/01/2012-06/05/2012 and 06/27/2012-06/28/2012
Lab Analysis	06/01/2012-06/05/2012 and 06/27/2012-06/28/2012
Correspondence	Request and approval of remediation plan via email

Request for Closure

Based on the completion of the remediation plan as agreed upon, BBC International requests closure approval from NMOCD.

Cliff Brunson, President of BBC International Inc.

03/09/2015

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company	Oxy Permian Ltd.	Contact	Christopher Jones
Address	1502 W. Commerce Dr., Carlsbad, NM	Telephone No.	(575) 628-4121
Facility Name	Mescalero SWD	Facility Type	Salt Water Disposal Facility

Surface Owner	Mineral Owner	Lease No.
---------------	---------------	-----------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	14	10S	32E					Lea County, NM

Latitude 33.44252

Longitude 103.64709

NATURE OF RELEASE

Type of Release	Oil and Produced Water	Volume of Release	2 bbls oil & 64 bbls produced water	Volume Recovered	35 bbls of produced water
Source of Release	Plugged screen on injection pump caused overflow of tank	Date and Hour of Occurrence	5/21/12 @ 10:00 am	Date and Hour of Discovery	5/21/12 @ 1:22 pm
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Geoffrey Leking- OCD		
By Whom?	Chris Jones	Date and Hour	5/22/12 @ 2:10 pm		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

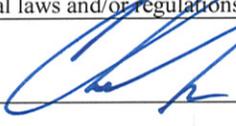
Describe Cause of Problem and Remedial Action Taken.*

A screen on the injection pump became plugged and caused the tank to overflow. 35 bbls of produced water were recovered via vacuum truck. Remediation will be performed according to a NMOCD-approved remediation plan.

Describe Area Affected and Cleanup Action Taken.*

Oil and produced water leaked inside the firewall affecting an area approximately 20' x 20'. 35 bbls of produced water were recovered and additional remediation will be performed in accordance with a NMOCD-approved remediation plan.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	OIL CONSERVATION DIVISION	
	Approved by District Supervisor:	
Printed Name: Christopher Jones	Approval Date:	Expiration Date:
Title: HES Specialist	Conditions of Approval:	
E-mail Address: Christopher_Jones@oxy.com	Attached <input type="checkbox"/>	
Date: <u>6-7-12</u> Phone: (575) 628-4121		

* Attach Additional Sheets If Necessary

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K	14	10S	32E					Lea County, NM

Latitude 33.44252

Longitude 103.64709

NATURE OF RELEASE

Type of Release	Oil and Produced Water	Volume of Release	1 bbls of oil & 109 bbls of produced water	Volume Recovered	99 bbls of produced water
Source of Release	Packing on tri-plex pump plunger failed	Date and Hour of Occurrence	5/23/12 @ 5:00 am	Date and Hour of Discovery	5/23/12 @ 10:00 am
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Geoffrey Leking- OCD		
By Whom?	Chris Jones	Date and Hour	5/24/12 @ 9:16 am		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

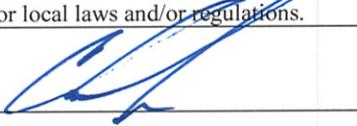
Describe Cause of Problem and Remedial Action Taken.*

The packing on a tri-plex pump plunger failed causing 110 bbls of oil and produced water to leak onto the ground. 99 bbls of produced water were recovered via vacuum truck. Remediation will be performed according to a NMOCD-approved remediation plan.

Describe Area Affected and Cleanup Action Taken.*

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Title: HES Specialist	Conditions of Approval:	
E-mail Address: Christopher_Jones@oxy.com	Attached <input type="checkbox"/>	
Date: <u>6-7-12</u> Phone: (575) 628-4121		

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State of New Mexico
Energy Minerals and Natural Resources

Form C-141
Revised August 8, 2011

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Santa Fe, NM 87505

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

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Signature: Chris Jones <small>Digitally signed by Chris Jones DN: cn=Chris Jones, o=oxy, email=rdjones889@yahoo.com, c=US Date: 2013.03.02 13:38:53 -0600</small>	OIL CONSERVATION DIVISION		
Printed Name: Christopher Jones	Approved by Environmental Specialist:		
Title: HES Specialist	Approval Date:	Expiration Date:	
E-mail Address: Christopher_Jones@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: <u>2/27/15</u>	Phone:		

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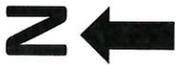
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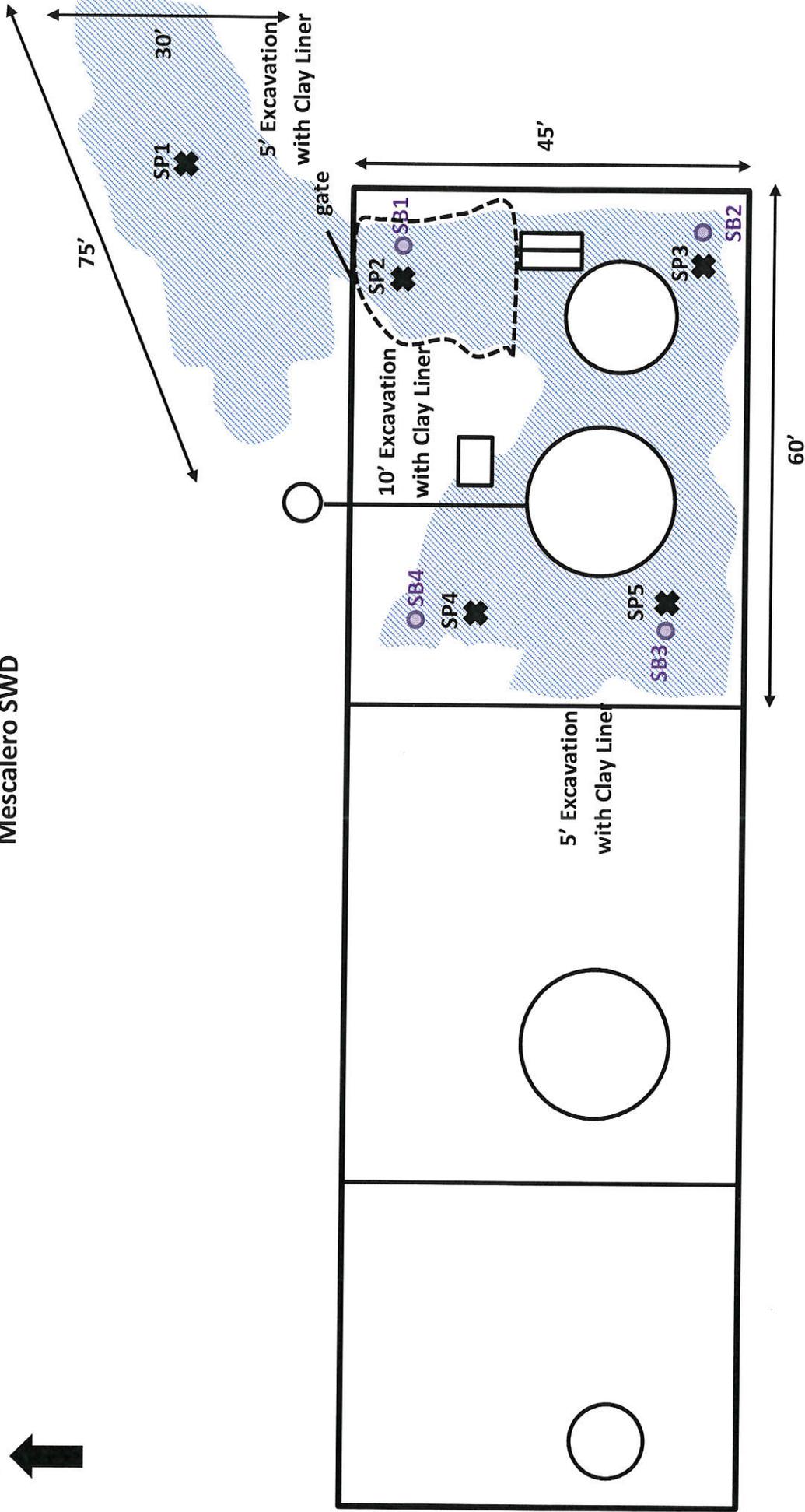
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Signature: Chris Jones <small>Digitally signed by Chris Jones DN: cn=Chris Jones, o, ou, email=ckjones88@yahoo.com, c=US Date: 2015.03.02 13:39:12 -06'00'</small>	OIL CONSERVATION DIVISION	
Printed Name: Christopher Jones	Approved by Environmental Specialist:	
Title: HES Specialist	Approval Date:	Expiration Date:
E-mail Address: Christopher.Jones@oxy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <u>2/27/15</u> Phone:		

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Oxy
Mescalero SWD



Section 14, T10S, R32E

Lea County, NM

GPS: N 33.44252, W 103.64709

BBC International, Inc.

Oxy

Mescalero SWD

Date: 05/24/12 DRWG by: K. Purvis

NOT TO SCALE File: Oxy 2012

Groundwater Plot

Oxy Mescalero SWD

County
Lea

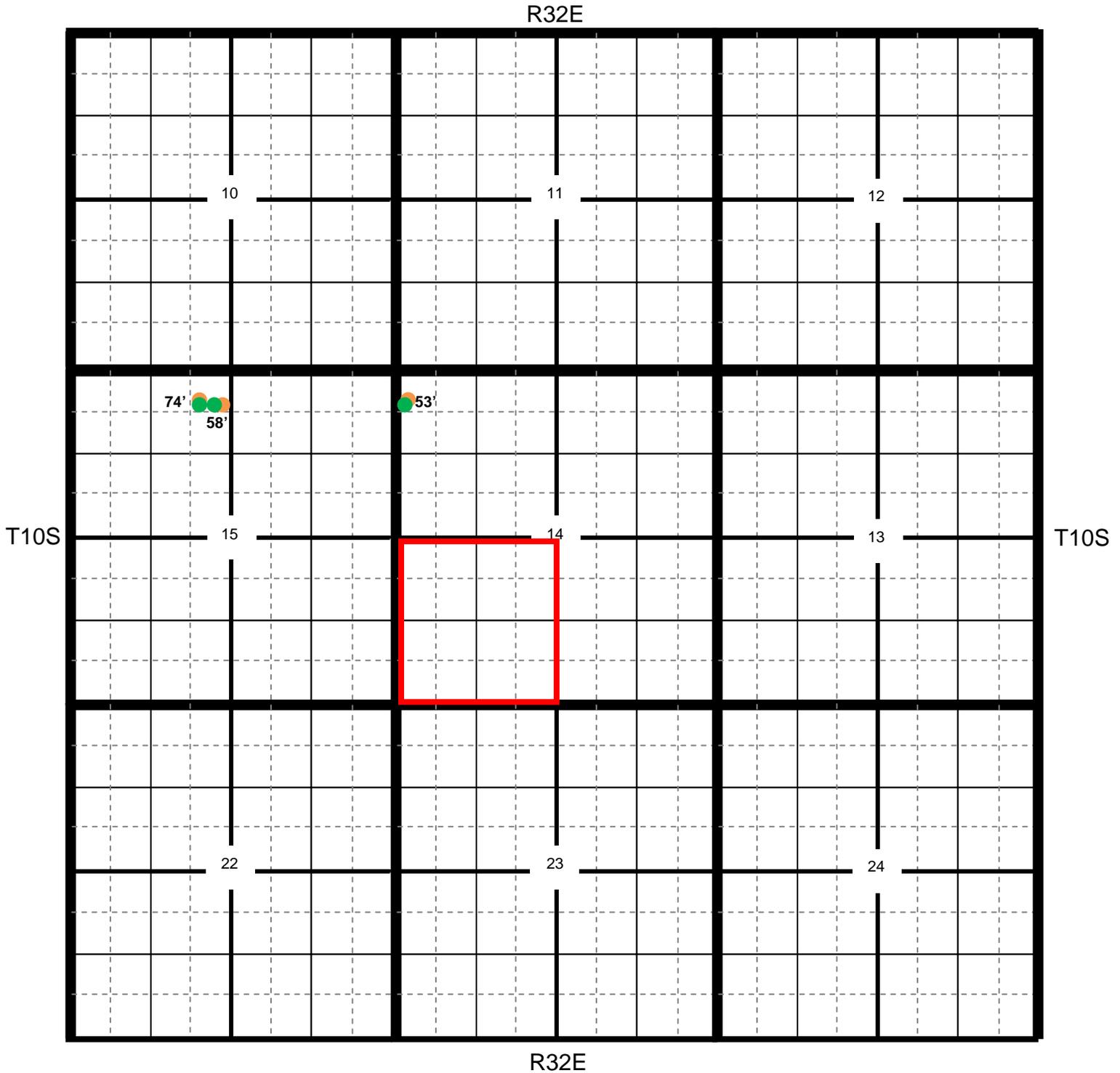
Unit Letter
SW ¼

Section
14

Township
10S

Range
32E

Trend Map ~50'



Location

OCD

USGS

SEO

All Databases

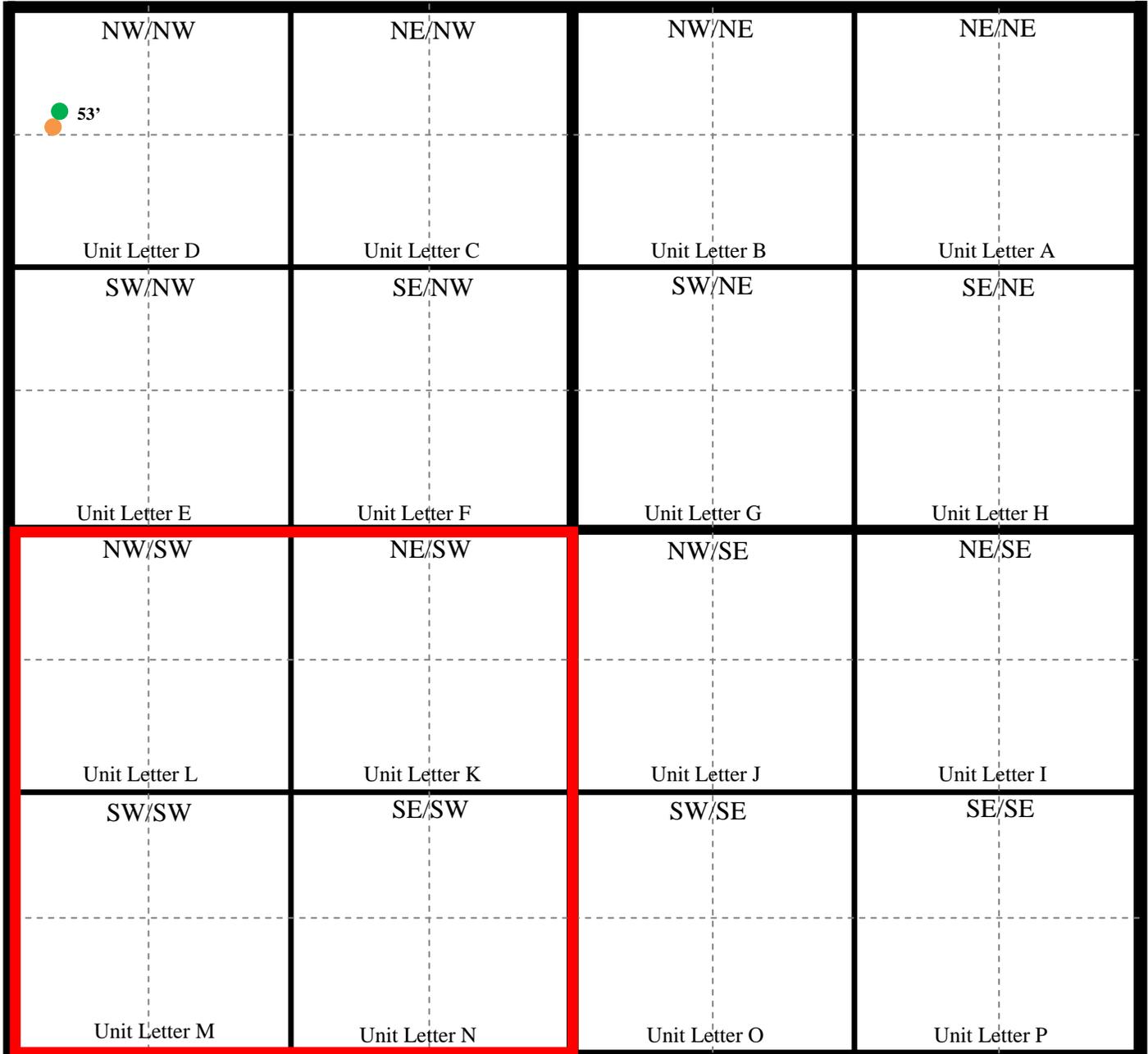
Oxy Mescalero SWD

County Unit Letter Section Township Range
 Lea SW ¼ 14 10S 32E

Trend Map ~50'

1

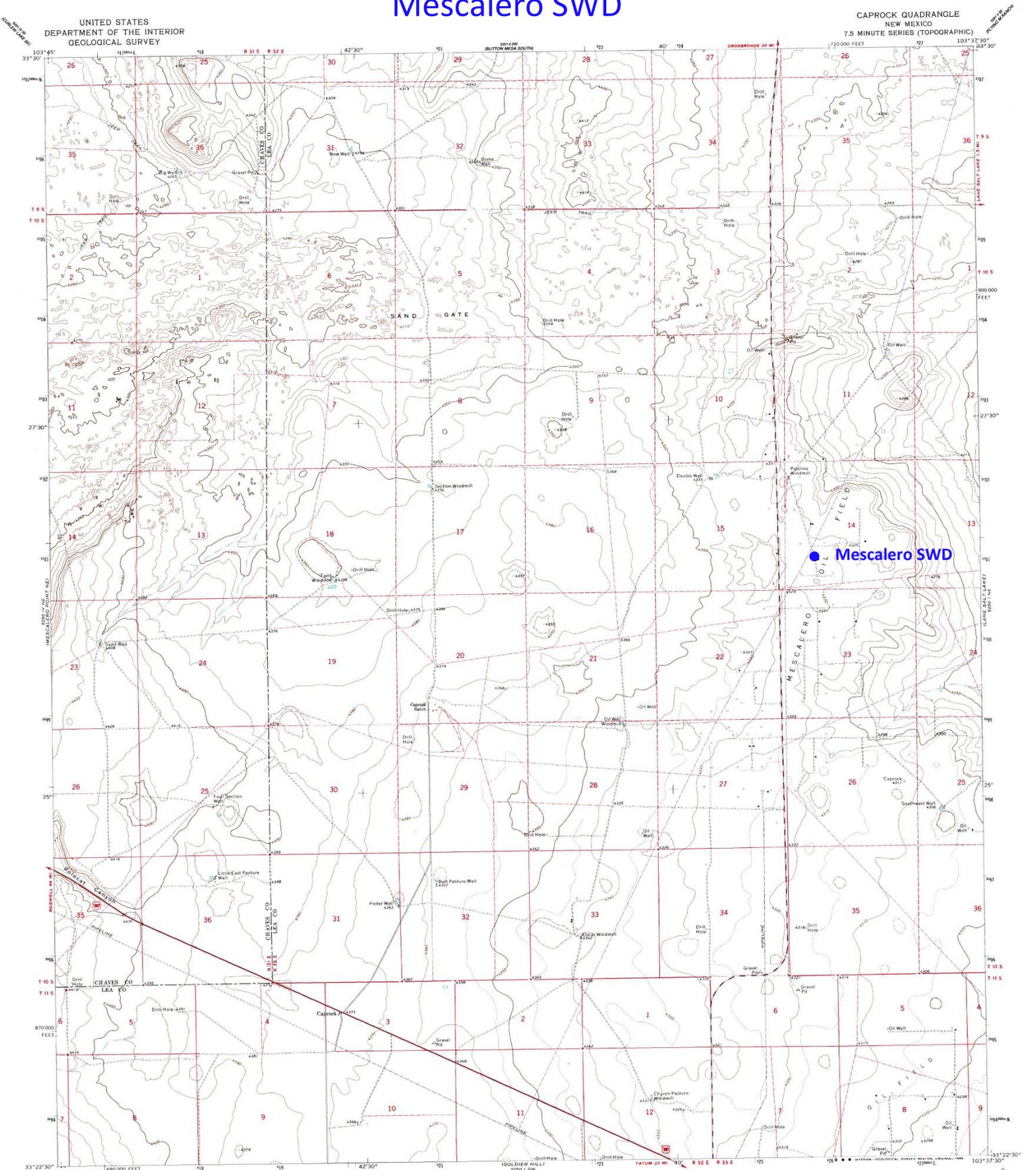
2



3

4

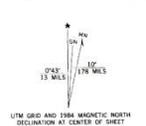
Oxy Mescalero SWD



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

CAPROCK QUADRANGLE
NEW MEXICO
7.5 MINUTE SERIES (TOPOGRAPHIC)

Mapped, edited, and published by the Geological Survey
Control by USGS and NOS/NOAA
Topography by photogrammetric methods from aerial
photographs taken 1971. Field checked 1973
Projection and 10,000-foot grid ticks: New Mexico
coordinate system, east zone (Transverse Mercator)
1000-meter Universal Transverse Mercator grid ticks,
zone 13, shown in blue
1927 North American Datum
To place on the predicted North American Datum 1983
move the projection lines 7 meters south and
46 meters east as shown by dashed corner ticks
Fine red dashed lines indicate selected fence lines
Revisions shown in purple and woodland compiled from aerial
photographs taken 1982 and other sources. This information
not field checked. Map edited 1984



SCALE 1:24 000
1 000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 0 1 2 3 4 5 6 7 8 9 10 KILOMETER
CONTOUR INTERVAL 10 FEET
DOTTED LINES REPRESENT 54000 CONTOURS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

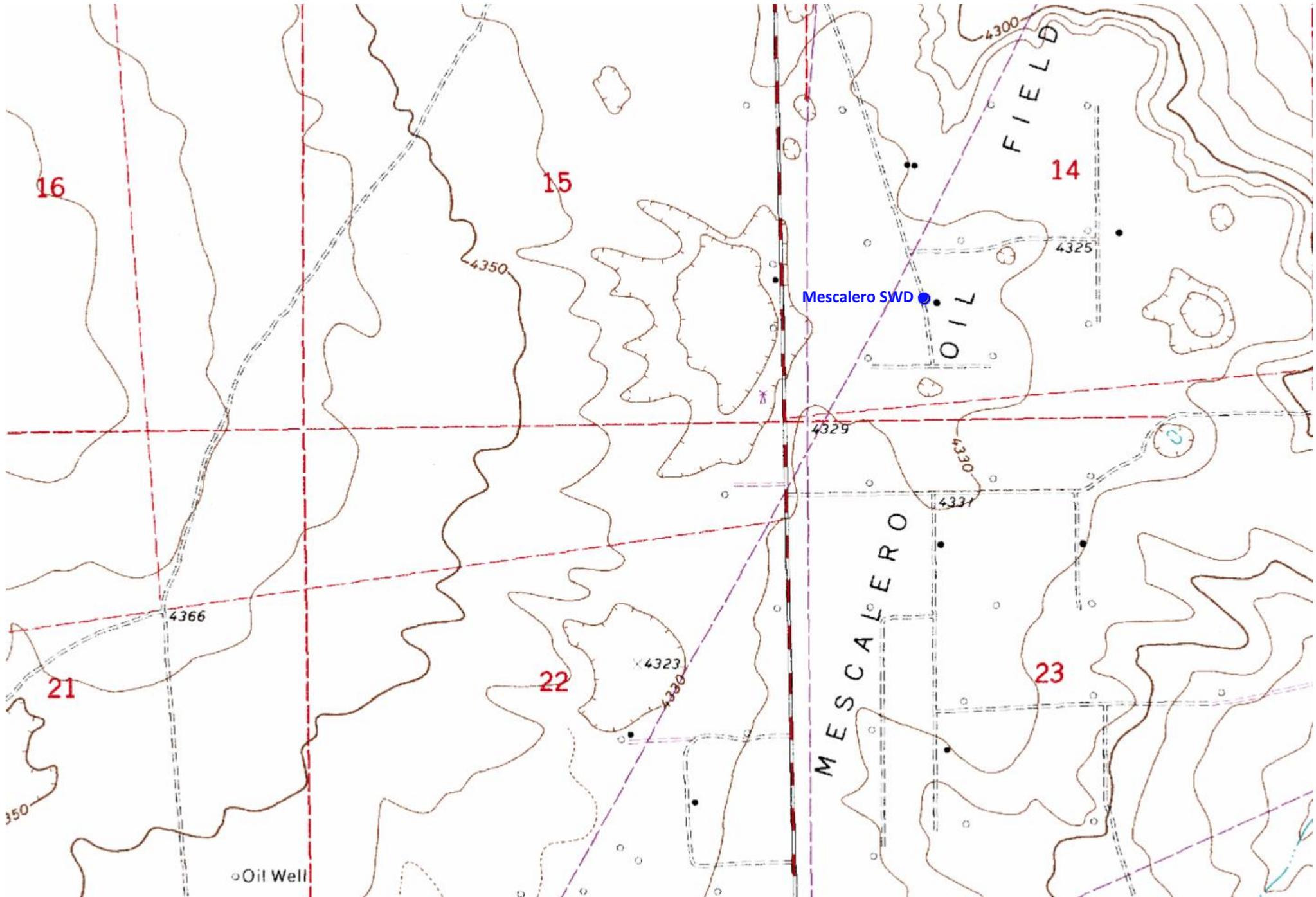


ROAD CLASSIFICATION
Primary highway, hard surface
Secondary highway, hard surface
Light-duty road, hard or improved surface
Unimproved road
Interstate Route
U.S. Route
State Route

CAPROCK, N. MEX.
33103-06-TF-024
1973
PHOTOREVISED 1984
DMA 5250 1 NW-SURIES 9881

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

Oxy Mescalero SWD



**Laboratory Analytical Results Summary
OXY, Mescalero SWD**

		Sample	SP1 @ 1'	SP1 @ 3'	SP1 @ 4'
Analyte	Method	Date	6/1/12	6/1/12	6/5/12
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		0.437	<0.050	<0.050
Toluene	BTEX 8021B		4.26	0.324	<0.050
Ethylbenzene	BTEX 8021B		11.5	0.74	0.113
Total Xylenes	BTEX 8021B		9.06	0.872	0.159
Chloride	SM4500Cl-B		1200	2200	976
GRO	TPH 8015M		214	<100	<50.0
DRO	TPH 8015M		3240	803	314

		Sample	SP2 @ 1'	SP2 @ 3'	SP2 @ 4'
Analyte	Method	Date	6/1/12	6/1/12	6/5/12
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		0.095	0.095	<0.050
Toluene	BTEX 8021B		1.07	1.13	0.322
Ethylbenzene	BTEX 8021B		3.1	3.53	1.38
Total Xylenes	BTEX 8021B		2.53	2.64	1.3
Chloride	SM4500Cl-B		9100	4400	5680
GRO	TPH 8015M		<100	<100	<50.0
DRO	TPH 8015M		1320	4360	1660

		Sample	SP3 @ 1'	SP3 @ 3'	SP3 @ 4'
Analyte	Method	Date	6/1/12	6/1/12	6/5/12
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		6.42	<0.050	<0.050
Toluene	BTEX 8021B		45.9	0.472	0.449
Ethylbenzene	BTEX 8021B		87.3	1.4	1.56
Total Xylenes	BTEX 8021B		55.1	2.61	1.4
Chloride	SM4500Cl-B		10600	5920	5200
GRO	TPH 8015M		1000	205	<100
DRO	TPH 8015M		6620	4690	1900

		Sample	SP4 @ 1'	SP4 @ 3'	SP4 @ 4'
Analyte	Method	Date	6/1/12	6/1/12	6/5/12
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		13	2.87	8.85
Toluene	BTEX 8021B		69.2	11	46.6
Ethylbenzene	BTEX 8021B		121	16.6	74
Total Xylenes	BTEX 8021B		86.5	11	44.3
Chloride	SM4500Cl-B		4160	7840	8000
GRO	TPH 8015M		2650	292	1110
DRO	TPH 8015M		25000	6870	8930

		Sample	SP5 @ 1'	SP5 @ 3'	SP5 @ 4'
Analyte	Method	Date	6/1/12	6/1/12	6/5/12
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		6.64	<0.050	<0.050
Toluene	BTEX 8021B		43.4	0.251	<0.050
Ethylbenzene	BTEX 8021B		89	1.07	0.052
Total Xylenes	BTEX 8021B		58.4	0.894	<0.150
Chloride	SM4500Cl-B		8600	2280	2800
GRO	TPH 8015M		1830	181	<50.0
DRO	TPH 8015M		13300	8160	184

Laboratory Analytical Results Summary
OXY, Mescalero SWD

		Sample	SB1 @ 5'	SB1 @ 10'	SB1 @ 20'	SB1 @ 30'	SB1 @ 40'	SB1 @ 50'	SB1 @ 57'
Analyte	Method	Date	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	<0.050	n/a	n/a	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	n/a	<0.050	n/a	n/a	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	<0.050	n/a	n/a	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	<0.150	n/a	n/a	<0.150
Chloride	SM4500Cl-B		3240	4480	2600	432	608	304	256
GRO	TPH 8015M		<50.0	<10.0	n/a	<10.0	n/a	n/a	<10.0
DRO	TPH 8015M		261	36.5	n/a	45.7	n/a	n/a	130

		Sample	SB2 @ 5'	SB2 @ 10'	SB2 @ 20'	SB2 @ 30'	SB2 @ 40'	SB2 @ 50'	SB2 @ 55'
Analyte	Method	Date	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	<0.050	n/a	n/a	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	n/a	<0.050	n/a	n/a	<0.050
Ethylbenzene	BTEX 8021B		0.098	<0.050	n/a	<0.050	n/a	n/a	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	<0.150	n/a	n/a	<0.150
Chloride	SM4500Cl-B		3120	1070	2240	1660	1170	304	368
GRO	TPH 8015M		<50.0	<50.0	n/a	<10.0	n/a	n/a	<10.0
DRO	TPH 8015M		319	276	n/a	<10.0	n/a	n/a	103

		Sample	SB3 @ 5'	SB3 @ 10'	SB3 @ 20'	SB3 @ 30'	SB3 @ 40'	SB3 @ 50'	SB3 @ 57'
Analyte	Method	Date	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a	<0.050	n/a	n/a	<0.050
Toluene	BTEX 8021B		<0.050	n/a	n/a	<0.050	n/a	n/a	<0.050
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a	<0.050	n/a	n/a	<0.050
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a	<0.150	n/a	n/a	<0.150
Chloride	SM4500Cl-B		3680	1330	2160	1630	1380	560	80
GRO	TPH 8015M		<10.0	n/a	n/a	<10.0	n/a	n/a	<10.0
DRO	TPH 8015M		220	n/a	n/a	70.2	n/a	n/a	<10.0

Laboratory Analytical Results Summary
OXY, Mescalero SWD

		Sample	SB4 @ 5'	SB4 @ 10'	SB4 @ 20'	SB4 @ 30'	SB4 @ 40'	SB4 @ 50'	SB4 @ 57'
Analyte	Method	Date	6/28/12	6/28/12	6/28/12	6/28/12	6/28/12	6/28/12	6/28/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	<0.050	n/a	n/a	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	n/a	<0.050	n/a	n/a	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	<0.050	n/a	n/a	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	<0.150	n/a	n/a	<0.150
Chloride	SM4500Cl-B		6560	784	3680	4160	5200	2320	320
GRO	TPH 8015M		<10.0	<10.0	n/a	<10.0	n/a	n/a	<10.0
DRO	TPH 8015M		137	27.6	n/a	34.6	n/a	n/a	<10.0

June 15, 2012

Cliff Brunson
BBC International, Inc.
P.O. Box 805
Hobbs, NM 88241

RE: MESCALERO SWD

Enclosed are the results of analyses for samples received by the laboratory on 06/07/12 16:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

 Received: 06/07/2012
 Reported: 06/15/2012
 Project Name: Mescalero SWD
 Project Number: NONE GIVEN
 Project Location: BUTTON MESA ROAD

 Sampling Date: 06/01/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ 1' (H201291-01)

BTEX 8021B		mg/kg		Analyzed By: ZZZ				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.437	0.050	06/11/2012	ND	1.74	87.1	2.00	3.84	
Toluene*	4.26	0.050	06/11/2012	ND	1.75	87.3	2.00	3.65	
Ethylbenzene*	11.5	0.050	06/11/2012	ND	1.75	87.7	2.00	5.10	
Total Xylenes*	9.06	0.150	06/11/2012	ND	5.29	88.2	6.00	4.57	

Surrogate: 4-Bromofluorobenzene (PID) 151 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1200	16.0	06/08/2012	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	214	100	06/08/2012	ND	179	89.5	200	2.34	
DRO >C10-C28	3240	100	06/08/2012	ND	184	91.8	200	9.04	

Surrogate: 1-Chlorooctane 107 % 65.2-140

Surrogate: 1-Chlorooctadecane 168 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

 Received: 06/07/2012
 Reported: 06/15/2012
 Project Name: MESCALERO SWD
 Project Number: NONE GIVEN
 Project Location: BUTTON MESA ROAD

 Sampling Date: 06/01/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ 3' (H201291-02)

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2012	ND	1.74	87.1	2.00	3.84	
Toluene*	0.324	0.050	06/11/2012	ND	1.75	87.3	2.00	3.65	
Ethylbenzene*	0.740	0.050	06/11/2012	ND	1.75	87.7	2.00	5.10	
Total Xylenes*	0.872	0.150	06/11/2012	ND	5.29	88.2	6.00	4.57	

Surrogate: 4-Bromofluorobenzene (PID) 117 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	06/08/2012	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	06/08/2012	ND	179	89.5	200	2.34	
DRO >C10-C28	803	100	06/08/2012	ND	184	91.8	200	9.04	

Surrogate: 1-Chlorooctane 76.7 % 65.2-140
Surrogate: 1-Chlorooctadecane 126 % 63.6-154

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 Cliff Brunson
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 Hobbs NM, 88241
 Fax To: (505) 397-0397

 Received: 06/07/2012
 Reported: 06/15/2012
 Project Name: MESCALERO SWD
 Project Number: NONE GIVEN
 Project Location: BUTTON MESA ROAD

 Sampling Date: 06/01/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 2 @ 1' (H201291-03)

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.095	0.050	06/11/2012	ND	1.74	87.1	2.00	3.84	
Toluene*	1.07	0.050	06/11/2012	ND	1.75	87.3	2.00	3.65	
Ethylbenzene*	3.10	0.050	06/11/2012	ND	1.75	87.7	2.00	5.10	
Total Xylenes*	2.53	0.150	06/11/2012	ND	5.29	88.2	6.00	4.57	

Surrogate: 4-Bromofluorobenzene (PID) 123 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9100	16.0	06/11/2012	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<100	100	06/11/2012	ND	170	85.1	200	9.05		
DRO >C10-C28	1320	100	06/11/2012	ND	168	84.2	200	9.87		

Surrogate: 1-Chlorooctane 99.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 191 % 63.6-154

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 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

 Received: 06/07/2012
 Reported: 06/15/2012
 Project Name: MESCALERO SWD
 Project Number: NONE GIVEN
 Project Location: BUTTON MESA ROAD

 Sampling Date: 06/01/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 2 @ 3' (H201291-04)

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.095	0.050	06/12/2012	ND	1.77	88.5	2.00	9.68	
Toluene*	1.13	0.050	06/12/2012	ND	1.80	90.0	2.00	9.77	
Ethylbenzene*	3.53	0.050	06/12/2012	ND	1.83	91.6	2.00	10.1	
Total Xylenes*	2.64	0.150	06/12/2012	ND	5.59	93.2	6.00	8.99	

Surrogate: 4-Bromofluorobenzene (PID) 112 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4400	16.0	06/11/2012	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<100	100	06/11/2012	ND	170	85.1	200	9.05		
DRO >C10-C28	4360	100	06/11/2012	ND	168	84.2	200	9.87		

Surrogate: 1-Chlorooctane 102 % 65.2-140

Surrogate: 1-Chlorooctadecane 216 % 63.6-154

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Received:	06/07/2012	Sampling Date:	06/01/2012
Reported:	06/15/2012	Sampling Type:	Soil
Project Name:	MESCALERO SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUTTON MESA ROAD		

Sample ID: SP 3 @ 1' (H201291-05)

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	6.42	1.00	06/12/2012	ND	1.77	88.5	2.00	9.68	
Toluene*	45.9	1.00	06/12/2012	ND	1.80	90.0	2.00	9.77	
Ethylbenzene*	87.3	1.00	06/12/2012	ND	1.83	91.6	2.00	10.1	
Total Xylenes*	55.1	3.00	06/12/2012	ND	5.59	93.2	6.00	8.99	

Surrogate: 4-Bromofluorobenzene (PID) 124 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10600	16.0	06/11/2012	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	1000	100	06/11/2012	ND	170	85.1	200	9.05		
DRO >C10-C28	6620	100	06/11/2012	ND	168	84.2	200	9.87		

Surrogate: 1-Chlorooctane 209 % 65.2-140

Surrogate: 1-Chlorooctadecane 269 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

 Received: 06/07/2012
 Reported: 06/15/2012
 Project Name: MESCALERO SWD
 Project Number: NONE GIVEN
 Project Location: BUTTON MESA ROAD

 Sampling Date: 06/01/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 3 @ 3' (H201291-06)

BTEX 8021B		mg/kg		Analyzed By: ZZZ				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/12/2012	ND	1.77	88.5	2.00	9.68	
Toluene*	0.472	0.050	06/12/2012	ND	1.80	90.0	2.00	9.77	
Ethylbenzene*	1.40	0.050	06/12/2012	ND	1.83	91.6	2.00	10.1	
Total Xylenes*	2.61	0.150	06/12/2012	ND	5.59	93.2	6.00	8.99	

Surrogate: 4-Bromofluorobenzene (PID) 195 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5920	16.0	06/11/2012	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	205	100	06/11/2012	ND	170	85.1	200	9.05	
DRO >C10-C28	4690	100	06/11/2012	ND	168	84.2	200	9.87	

Surrogate: 1-Chlorooctane 128 % 65.2-140

Surrogate: 1-Chlorooctadecane 220 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

 Received: 06/07/2012
 Reported: 06/15/2012
 Project Name: MESCALERO SWD
 Project Number: NONE GIVEN
 Project Location: BUTTON MESA ROAD

 Sampling Date: 06/01/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 4 @ 1' (H201291-07)

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	13.0	1.00	06/12/2012	ND	1.77	88.5	2.00	9.68	
Toluene*	69.2	1.00	06/12/2012	ND	1.80	90.0	2.00	9.77	
Ethylbenzene*	121	1.00	06/12/2012	ND	1.83	91.6	2.00	10.1	
Total Xylenes*	86.5	3.00	06/12/2012	ND	5.59	93.2	6.00	8.99	

Surrogate: 4-Bromofluorobenzene (PID) 125 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4160	16.0	06/11/2012	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	2650	200	06/11/2012	ND	170	85.1	200	9.05		
DRO >C10-C28	25000	200	06/11/2012	ND	168	84.2	200	9.87		

Surrogate: 1-Chlorooctane 245 % 65.2-140

Surrogate: 1-Chlorooctadecane 621 % 63.6-154

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Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

 Received: 06/07/2012
 Reported: 06/15/2012
 Project Name: MESCALERO SWD
 Project Number: NONE GIVEN
 Project Location: BUTTON MESA ROAD

 Sampling Date: 06/01/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 4 @ 3' (H201291-08)

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.87	0.500	06/12/2012	ND	1.77	88.5	2.00	9.68	
Toluene*	11.0	0.500	06/12/2012	ND	1.80	90.0	2.00	9.77	
Ethylbenzene*	16.6	0.500	06/12/2012	ND	1.83	91.6	2.00	10.1	
Total Xylenes*	11.0	1.50	06/12/2012	ND	5.59	93.2	6.00	8.99	

Surrogate: 4-Bromofluorobenzene (PID) 114 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7840	16.0	06/11/2012	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	292	100	06/11/2012	ND	170	85.1	200	9.05		
DRO >C10-C28	6870	100	06/11/2012	ND	168	84.2	200	9.87		

Surrogate: 1-Chlorooctane 123 % 65.2-140

Surrogate: 1-Chlorooctadecane 300 % 63.6-154

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 Hobbs NM, 88241
 Fax To: (505) 397-0397

 Received: 06/07/2012
 Reported: 06/15/2012
 Project Name: MESCALERO SWD
 Project Number: NONE GIVEN
 Project Location: BUTTON MESA ROAD

 Sampling Date: 06/01/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 5 @ 1' (H201291-09)

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	6.64	1.00	06/12/2012	ND	1.77	88.5	2.00	9.68	
Toluene*	43.4	1.00	06/12/2012	ND	1.80	90.0	2.00	9.77	
Ethylbenzene*	89.0	1.00	06/12/2012	ND	1.83	91.6	2.00	10.1	
Total Xylenes*	58.4	3.00	06/12/2012	ND	5.59	93.2	6.00	8.99	

Surrogate: 4-Bromofluorobenzene (PID) 119 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8600	16.0	06/11/2012	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	1830	100	06/11/2012	ND	170	85.1	200	9.05		
DRO >C10-C28	13300	100	06/11/2012	ND	168	84.2	200	9.87		

Surrogate: 1-Chlorooctane 162 % 65.2-140

Surrogate: 1-Chlorooctadecane 384 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

 Received: 06/07/2012
 Reported: 06/15/2012
 Project Name: MESCALERO SWD
 Project Number: NONE GIVEN
 Project Location: BUTTON MESA ROAD

 Sampling Date: 06/01/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 5 @ 3' (H201291-10)

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/12/2012	ND	1.77	88.5	2.00	9.68	
Toluene*	0.251	0.050	06/12/2012	ND	1.80	90.0	2.00	9.77	
Ethylbenzene*	1.07	0.050	06/12/2012	ND	1.83	91.6	2.00	10.1	
Total Xylenes*	0.894	0.150	06/12/2012	ND	5.59	93.2	6.00	8.99	

Surrogate: 4-Bromofluorobenzene (PID) 119 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2280	16.0	06/11/2012	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	181	100	06/11/2012	ND	170	85.1	200	9.05		
DRO >C10-C28	8160	100	06/11/2012	ND	168	84.2	200	9.87		

Surrogate: 1-Chlorooctane 150 % 65.2-140

Surrogate: 1-Chlorooctadecane 306 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

 Received: 06/07/2012
 Reported: 06/15/2012
 Project Name: MESCALERO SWD
 Project Number: NONE GIVEN
 Project Location: BUTTON MESA ROAD

 Sampling Date: 06/05/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ 4' (H201291-11)

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/12/2012	ND	1.77	88.5	2.00	9.68	
Toluene*	<0.050	0.050	06/12/2012	ND	1.80	90.0	2.00	9.77	
Ethylbenzene*	0.113	0.050	06/12/2012	ND	1.83	91.6	2.00	10.1	
Total Xylenes*	0.159	0.150	06/12/2012	ND	5.59	93.2	6.00	8.99	

Surrogate: 4-Bromofluorobenzene (PID) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	06/11/2012	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	06/11/2012	ND	170	85.1	200	9.05	
DRO >C10-C28	314	50.0	06/11/2012	ND	168	84.2	200	9.87	

Surrogate: 1-Chlorooctane 84.4 % 65.2-140
Surrogate: 1-Chlorooctadecane 117 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

 Received: 06/07/2012
 Reported: 06/15/2012
 Project Name: MESCALERO SWD
 Project Number: NONE GIVEN
 Project Location: BUTTON MESA ROAD

 Sampling Date: 06/05/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 2 @ 4' (H201291-12)

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/12/2012	ND	1.77	88.5	2.00	9.68	
Toluene*	0.322	0.050	06/12/2012	ND	1.80	90.0	2.00	9.77	
Ethylbenzene*	1.38	0.050	06/12/2012	ND	1.83	91.6	2.00	10.1	
Total Xylenes*	1.30	0.150	06/12/2012	ND	5.59	93.2	6.00	8.99	

Surrogate: 4-Bromofluorobenzene (PID) 125 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5680	16.0	06/11/2012	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	06/11/2012	ND	170	85.1	200	9.05	
DRO >C10-C28	1660	50.0	06/11/2012	ND	168	84.2	200	9.87	

Surrogate: 1-Chlorooctane 90.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 142 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

Received:	06/07/2012	Sampling Date:	06/05/2012
Reported:	06/15/2012	Sampling Type:	Soil
Project Name:	MESCALERO SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUTTON MESA ROAD		

Sample ID: SP 3 @ 4' (H201291-13)

BTEX 8021B		mg/kg		Analyzed By: ZZZ				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/12/2012	ND	1.77	88.5	2.00	9.68	
Toluene*	0.449	0.050	06/12/2012	ND	1.80	90.0	2.00	9.77	
Ethylbenzene*	1.56	0.050	06/12/2012	ND	1.83	91.6	2.00	10.1	
Total Xylenes*	1.40	0.150	06/12/2012	ND	5.59	93.2	6.00	8.99	

Surrogate: 4-Bromofluorobenzene (PID) 138 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5200	16.0	06/11/2012	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	06/11/2012	ND	170	85.1	200	9.05	
DRO >C10-C28	1900	100	06/11/2012	ND	168	84.2	200	9.87	

Surrogate: 1-Chlorooctane 95.6 % 65.2-140
Surrogate: 1-Chlorooctadecane 152 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

 Received: 06/07/2012
 Reported: 06/15/2012
 Project Name: MESCALERO SWD
 Project Number: NONE GIVEN
 Project Location: BUTTON MESA ROAD

 Sampling Date: 06/05/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 4 @ 4' (H201291-14)

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	8.85	1.00	06/12/2012	ND	1.77	88.5	2.00	9.68	
Toluene*	46.6	1.00	06/12/2012	ND	1.80	90.0	2.00	9.77	
Ethylbenzene*	74.0	1.00	06/12/2012	ND	1.83	91.6	2.00	10.1	
Total Xylenes*	44.3	3.00	06/12/2012	ND	5.59	93.2	6.00	8.99	

Surrogate: 4-Bromofluorobenzene (PID) 117 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8000	16.0	06/11/2012	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	1110	100	06/11/2012	ND	170	85.1	200	9.05		
DRO >C10-C28	8930	100	06/11/2012	ND	168	84.2	200	9.87		

Surrogate: 1-Chlorooctane 215 % 65.2-140

Surrogate: 1-Chlorooctadecane 333 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

 Received: 06/07/2012
 Reported: 06/15/2012
 Project Name: MESCALERO SWD
 Project Number: NONE GIVEN
 Project Location: BUTTON MESA ROAD

 Sampling Date: 06/05/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 5 @ 4' (H201291-15)

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/12/2012	ND	1.77	88.5	2.00	9.68	
Toluene*	<0.050	0.050	06/12/2012	ND	1.80	90.0	2.00	9.77	
Ethylbenzene*	0.052	0.050	06/12/2012	ND	1.83	91.6	2.00	10.1	
Total Xylenes*	<0.150	0.150	06/12/2012	ND	5.59	93.2	6.00	8.99	

Surrogate: 4-Bromofluorobenzene (PID) 103 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2800	16.0	06/11/2012	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	06/11/2012	ND	170	85.1	200	9.05	
DRO >C10-C28	184	50.0	06/11/2012	ND	168	84.2	200	9.87	

Surrogate: 1-Chlorooctane 111 % 65.2-140

Surrogate: 1-Chlorooctadecane 151 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES
 101 East Marland, Hobbs, NM 88240
 (505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc. Project Manager: Cliff Brunson Address: P.O. Box 805 City: Hobbs Phone #: 575-397-6388 Project #: Mesalero Project Name: Mesalero SWD Project Location: Buffalo Mesa Rd Sampler Name: JEFF OLIVERAS		State: NM Zip: 88241 Fax #: 575-397-0397 Project Owner: Ory City: SAGE State: Zip: Phone #: Fax #:		BILL TO P.O. #: Company: Attn: Address: SAGE City: State: Zip: Phone #: Fax #:		ANALYSIS REQUEST					
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	TPH	BTEX	CL-
H2D1291	SP 1 @ 1'	G	1	GROUNDWATER			6.1.12	320	✓	✓	✓
	SP 2 @ 3'	G	1	GROUNDWATER			6.1.12	933	✓	✓	✓
	SP 2 @ 1'	G	1	GROUNDWATER			6.1.12	1119	✓	✓	✓
	SP 3 @ 3'	G	1	GROUNDWATER			6.1.12	1141	✓	✓	✓
	SP 3 @ 1'	G	1	GROUNDWATER			6.1.12	839	✓	✓	✓
	SP 4 @ 3'	G	1	GROUNDWATER			6.1.12	950	✓	✓	✓
	SP 4 @ 1'	G	1	GROUNDWATER			6.1.12	1042	✓	✓	✓
	SP 5 @ 3'	G	1	GROUNDWATER			6.1.12	1130	✓	✓	✓
	SP 5 @ 1'	G	1	GROUNDWATER			6.1.12	1149	✓	✓	✓
	SP 5 @ 3'	G	1	GROUNDWATER			6.1.12	104	✓	✓	✓

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Relinquished By: [Signature] Date: 6.7.12 Time: 4:40
 Received By: [Signature] Date: 6.7.12 Time: 4:40
 Delivered By: (Circle One) [Signature] Date: 6.7.12 Time: 4:45
 Received By: [Signature] Date: 6.7.12 Time: 4:45
 Sample Condition: Intact Cool Yes No
 Checked By: [Signature] (Initials) [Signature]
 Remarks: * changed as per Kathy. 6/15/12.

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

26



ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240
(505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name: Mescalero DUP

Project Location: Mescalero DUP

Sampler Name: Jeff Bracker

P.O. #:

Company:

Attn:

Address: SAME

City:

State: zip:

Phone #:

Fax #:

BILL TO

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	TPH	BTEX	CL-
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
A2D1291														
11	SP 1 0 4		1						6-5-12	930				
12	SP 2 0 4		1						6-5-12	1030				
13	SP 3 0 4		1						6-5-12	1130				
14	SP 4 0 4		1						6-5-12	215				
15	SP 5 0 4		1						6-5-12	215				

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Relinquished By: [Signature]

Date: 6-7-12

Received By: [Signature]

Phone Result: Yes No

Fax Result: Yes No

REMARKS:

Relinquished By: [Signature]

Date: 6-7-12

Received By: [Signature]

Delivered By: (Circle One)

Date: 6-7-12

Received By: [Signature]

Delivered By: (Circle One)

Date: 6-7-12

Received By: [Signature]

Delivered By: (Circle One)

Date: 6-7-12

Received By: [Signature]

Delivered By: (Circle One)

Date: 6-7-12

Received By: [Signature]

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

#96

July 06, 2012

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: MESCALERO SWD

Enclosed are the results of analyses for samples received by the laboratory on 06/29/12 17:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

 Received: 06/29/2012
 Reported: 07/06/2012
 Project Name: Mescalero SWD
 Project Number: NONE GIVEN
 Project Location: BUTTON MESA ROAD

 Sampling Date: 06/27/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SB 1 @ 5' (H201483-01)

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/06/2012	ND	1.87	93.7	2.00	7.73	
Toluene*	<0.050	0.050	07/06/2012	ND	1.91	95.3	2.00	7.24	
Ethylbenzene*	<0.050	0.050	07/06/2012	ND	1.94	97.2	2.00	7.96	
Total Xylenes*	<0.150	0.150	07/06/2012	ND	5.92	98.7	6.00	6.20	

Surrogate: 4-Bromofluorobenzene (PID) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3240	16.0	07/03/2012	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: AM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	07/03/2012	ND	193	96.5	200	1.57	
DRO >C10-C28	261	50.0	07/03/2012	ND	201	101	200	0.257	

Surrogate: 1-Chlorooctane 73.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 113 % 63.6-154

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 Cliff Brunson
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 Hobbs NM, 88241
 Fax To: (505) 397-0397

Received:	06/29/2012	Sampling Date:	06/27/2012
Reported:	07/06/2012	Sampling Type:	Soil
Project Name:	MESCALERO SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUTTON MESA ROAD		

Sample ID: SB 1 @ 10' (H201483-02)

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/05/2012	ND	1.87	93.7	2.00	7.73	
Toluene*	<0.050	0.050	07/05/2012	ND	1.91	95.3	2.00	7.24	
Ethylbenzene*	<0.050	0.050	07/05/2012	ND	1.94	97.2	2.00	7.96	
Total Xylenes*	<0.150	0.150	07/05/2012	ND	5.92	98.7	6.00	6.20	

Surrogate: 4-Bromofluorobenzene (PID) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4480	16.0	07/03/2012	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: AM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/03/2012	ND	193	96.5	200	1.57	
DRO >C10-C28	36.5	10.0	07/03/2012	ND	201	101	200	0.257	

Surrogate: 1-Chlorooctane 82.0 % 65.2-140
Surrogate: 1-Chlorooctadecane 97.2 % 63.6-154
Sample ID: SB 1 @ 20' (H201483-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2600	16.0	07/03/2012	ND	416	104	400	0.00	

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Analytical Results For:

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 Cliff Brunson
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 Hobbs NM, 88241
 Fax To: (505) 397-0397

 Received: 06/29/2012
 Reported: 07/06/2012
 Project Name: MESCALERO SWD
 Project Number: NONE GIVEN
 Project Location: BUTTON MESA ROAD

 Sampling Date: 06/27/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SB 1 @ 30' (H201483-04)

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/05/2012	ND	1.87	93.7	2.00	7.73	
Toluene*	<0.050	0.050	07/05/2012	ND	1.91	95.3	2.00	7.24	
Ethylbenzene*	<0.050	0.050	07/05/2012	ND	1.94	97.2	2.00	7.96	
Total Xylenes*	<0.150	0.150	07/05/2012	ND	5.92	98.7	6.00	6.20	

Surrogate: 4-Bromofluorobenzene (PID) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	07/03/2012	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: AM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/03/2012	ND	193	96.5	200	1.57	
DRO >C10-C28	45.7	10.0	07/03/2012	ND	201	101	200	0.257	

Surrogate: 1-Chlorooctane 83.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 95.1 % 63.6-154

Sample ID: SB 1 @ 40' (H201483-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	07/03/2012	ND	416	104	400	0.00	

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Received:	06/29/2012	Sampling Date:	06/27/2012
Reported:	07/06/2012	Sampling Type:	Soil
Project Name:	MESCALERO SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUTTON MESA ROAD		

Sample ID: SB 1 @ 50' (H201483-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	07/03/2012	ND	416	104	400	0.00	

Sample ID: SB 1 @ 57' (H201483-07)

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/05/2012	ND	1.87	93.7	2.00	7.73	
Toluene*	<0.050	0.050	07/05/2012	ND	1.91	95.3	2.00	7.24	
Ethylbenzene*	<0.050	0.050	07/05/2012	ND	1.94	97.2	2.00	7.96	
Total Xylenes*	<0.150	0.150	07/05/2012	ND	5.92	98.7	6.00	6.20	

Surrogate: 4-Bromofluorobenzene (PID) 102 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	07/03/2012	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: AM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/03/2012	ND	193	96.5	200	1.57	
DRO >C10-C28	130	10.0	07/03/2012	ND	201	101	200	0.257	

Surrogate: 1-Chlorooctane 85.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 112 % 63.6-154

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Analytical Results For:

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 Hobbs NM, 88241
 Fax To: (505) 397-0397

 Received: 06/29/2012
 Reported: 07/06/2012
 Project Name: MESCALERO SWD
 Project Number: NONE GIVEN
 Project Location: BUTTON MESA ROAD

 Sampling Date: 06/27/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SB 2 @ 5' (H201483-08)

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/06/2012	ND	1.87	93.7	2.00	7.73	
Toluene*	<0.050	0.050	07/06/2012	ND	1.91	95.3	2.00	7.24	
Ethylbenzene*	0.098	0.050	07/06/2012	ND	1.94	97.2	2.00	7.96	
Total Xylenes*	<0.150	0.150	07/06/2012	ND	5.92	98.7	6.00	6.20	

Surrogate: 4-Bromofluorobenzene (PID) 103 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3120	16.0	07/03/2012	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: AM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	07/03/2012	ND	193	96.5	200	1.57	
DRO >C10-C28	319	50.0	07/03/2012	ND	201	101	200	0.257	

Surrogate: 1-Chlorooctane 85.2 % 65.2-140
Surrogate: 1-Chlorooctadecane 109 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

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 BBC International, Inc.
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Received:	06/29/2012	Sampling Date:	06/27/2012
Reported:	07/06/2012	Sampling Type:	Soil
Project Name:	MESCALERO SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUTTON MESA ROAD		

Sample ID: SB 2 @ 10' (H201483-09)

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/05/2012	ND	1.87	93.7	2.00	7.73	
Toluene*	<0.050	0.050	07/05/2012	ND	1.91	95.3	2.00	7.24	
Ethylbenzene*	<0.050	0.050	07/05/2012	ND	1.94	97.2	2.00	7.96	
Total Xylenes*	<0.150	0.150	07/05/2012	ND	5.92	98.7	6.00	6.20	

Surrogate: 4-Bromofluorobenzene (PID) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1070	16.0	07/03/2012	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: AM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	07/03/2012	ND	193	96.5	200	1.57	
DRO >C10-C28	276	50.0	07/03/2012	ND	201	101	200	0.257	

Surrogate: 1-Chlorooctane 82.7 % 65.2-140
Surrogate: 1-Chlorooctadecane 110 % 63.6-154
Sample ID: SB 2 @ 20' (H201483-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2240	16.0	07/03/2012	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

 Received: 06/29/2012
 Reported: 07/06/2012
 Project Name: MESCALERO SWD
 Project Number: NONE GIVEN
 Project Location: BUTTON MESA ROAD

 Sampling Date: 06/27/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SB 2 @ 30' (H201483-11)

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/05/2012	ND	1.87	93.7	2.00	7.73	
Toluene*	<0.050	0.050	07/05/2012	ND	1.91	95.3	2.00	7.24	
Ethylbenzene*	<0.050	0.050	07/05/2012	ND	1.94	97.2	2.00	7.96	
Total Xylenes*	<0.150	0.150	07/05/2012	ND	5.92	98.7	6.00	6.20	

Surrogate: 4-Bromofluorobenzene (PID) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1660	16.0	07/03/2012	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: AM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/03/2012	ND	193	96.5	200	1.57	
DRO >C10-C28	<10.0	10.0	07/03/2012	ND	201	101	200	0.257	

Surrogate: 1-Chlorooctane 87.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.7 % 63.6-154

Sample ID: SB 2 @ 40' (H201483-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	07/03/2012	ND	416	104	400	0.00	

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Received:	06/29/2012	Sampling Date:	06/27/2012
Reported:	07/06/2012	Sampling Type:	Soil
Project Name:	MESCALERO SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUTTON MESA ROAD		

Sample ID: SB 2 @ 50' (H201483-13)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	07/03/2012	ND	416	104	400	0.00	

Sample ID: SB 2 @ 55' (H201483-14)

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/05/2012	ND	1.87	93.7	2.00	7.73	
Toluene*	<0.050	0.050	07/05/2012	ND	1.91	95.3	2.00	7.24	
Ethylbenzene*	<0.050	0.050	07/05/2012	ND	1.94	97.2	2.00	7.96	
Total Xylenes*	<0.150	0.150	07/05/2012	ND	5.92	98.7	6.00	6.20	

Surrogate: 4-Bromofluorobenzene (PID) 101 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	07/03/2012	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: AM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/03/2012	ND	193	96.5	200	1.57	
DRO >C10-C28	103	10.0	07/03/2012	ND	201	101	200	0.257	

Surrogate: 1-Chlorooctane 87.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

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 Cliff Brunson
 P.O. Box 805
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 Fax To: (505) 397-0397

 Received: 06/29/2012
 Reported: 07/06/2012
 Project Name: MESCALERO SWD
 Project Number: NONE GIVEN
 Project Location: BUTTON MESA ROAD

 Sampling Date: 06/27/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SB 3 @ 5' (H201483-15)

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/05/2012	ND	1.87	93.7	2.00	7.73	
Toluene*	<0.050	0.050	07/05/2012	ND	1.91	95.3	2.00	7.24	
Ethylbenzene*	<0.050	0.050	07/05/2012	ND	1.94	97.2	2.00	7.96	
Total Xylenes*	<0.150	0.150	07/05/2012	ND	5.92	98.7	6.00	6.20	

Surrogate: 4-Bromofluorobenzene (PID) 101 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3680	16.0	07/03/2012	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: AM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/03/2012	ND	193	96.5	200	1.57	
DRO >C10-C28	220	10.0	07/03/2012	ND	201	101	200	0.257	

Surrogate: 1-Chlorooctane 85.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.7 % 63.6-154

Sample ID: SB 3 @ 10' (H201483-16)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1330	16.0	07/03/2012	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

Received:	06/29/2012	Sampling Date:	06/27/2012
Reported:	07/06/2012	Sampling Type:	Soil
Project Name:	MESCALERO SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUTTON MESA ROAD		

Sample ID: SB 3 @ 20' (H201483-17)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2160	16.0	07/03/2012	ND	416	104	400	0.00	

Sample ID: SB 3 @ 30' (H201483-18)

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/05/2012	ND	1.87	93.7	2.00	7.73	
Toluene*	<0.050	0.050	07/05/2012	ND	1.91	95.3	2.00	7.24	
Ethylbenzene*	<0.050	0.050	07/05/2012	ND	1.94	97.2	2.00	7.96	
Total Xylenes*	<0.150	0.150	07/05/2012	ND	5.92	98.7	6.00	6.20	

Surrogate: 4-Bromofluorobenzene (PID) 100 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1630	16.0	07/03/2012	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: AM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/03/2012	ND	193	96.5	200	1.57	
DRO >C10-C28	70.2	10.0	07/03/2012	ND	201	101	200	0.257	

Surrogate: 1-Chlorooctane 73.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 86.8 % 63.6-154

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 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

Received:	06/29/2012	Sampling Date:	06/27/2012
Reported:	07/06/2012	Sampling Type:	Soil
Project Name:	MESCALERO SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUTTON MESA ROAD		

Sample ID: SB 3 @ 40' (H201483-19)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1380	16.0	07/03/2012	ND	416	104	400	0.00	

Sample ID: SB 3 @ 50' (H201483-20)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	07/03/2012	ND	416	104	400	0.00	

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Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
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 Hobbs NM, 88241
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 Received: 06/29/2012
 Reported: 07/06/2012
 Project Name: MESCALERO SWD
 Project Number: NONE GIVEN
 Project Location: BUTTON MESA ROAD

 Sampling Date: 06/27/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SB 3 @ 57' (H201483-21)

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/06/2012	ND	1.87	93.7	2.00	7.73	
Toluene*	<0.050	0.050	07/06/2012	ND	1.91	95.3	2.00	7.24	
Ethylbenzene*	<0.050	0.050	07/06/2012	ND	1.94	97.2	2.00	7.96	
Total Xylenes*	<0.150	0.150	07/06/2012	ND	5.92	98.7	6.00	6.20	

Surrogate: 4-Bromofluorobenzene (PID) 105 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/03/2012	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: AM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/03/2012	ND	193	96.5	200	1.57	
DRO >C10-C28	<10.0	10.0	07/03/2012	ND	201	101	200	0.257	

Surrogate: 1-Chlorooctane 84.9 % 65.2-140
Surrogate: 1-Chlorooctadecane 96.5 % 63.6-154

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Analytical Results For:

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 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

 Received: 06/29/2012
 Reported: 07/06/2012
 Project Name: MESCALERO SWD
 Project Number: NONE GIVEN
 Project Location: BUTTON MESA ROAD

 Sampling Date: 06/28/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SB 4 @ 5' (H201483-22)

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/06/2012	ND	1.86	93.0	2.00	2.48	
Toluene*	<0.050	0.050	07/06/2012	ND	1.88	94.2	2.00	3.45	
Ethylbenzene*	<0.050	0.050	07/06/2012	ND	1.93	96.5	2.00	4.32	
Total Xylenes*	<0.150	0.150	07/06/2012	ND	5.81	96.8	6.00	3.92	

Surrogate: 4-Bromofluorobenzene (PID) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6560	16.0	07/03/2012	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: AM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/03/2012	ND	193	96.5	200	1.57	
DRO >C10-C28	137	10.0	07/03/2012	ND	201	101	200	0.257	

Surrogate: 1-Chlorooctane 93.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 116 % 63.6-154

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Received:	06/29/2012	Sampling Date:	06/28/2012
Reported:	07/06/2012	Sampling Type:	Soil
Project Name:	MESCALERO SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUTTON MESA ROAD		

Sample ID: SB 4 @ 10' (H201483-23)

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/06/2012	ND	1.86	93.0	2.00	2.48	
Toluene*	<0.050	0.050	07/06/2012	ND	1.88	94.2	2.00	3.45	
Ethylbenzene*	<0.050	0.050	07/06/2012	ND	1.93	96.5	2.00	4.32	
Total Xylenes*	<0.150	0.150	07/06/2012	ND	5.81	96.8	6.00	3.92	

Surrogate: 4-Bromofluorobenzene (PID) 104 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	07/03/2012	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: AM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/03/2012	ND	193	96.5	200	1.57	
DRO >C10-C28	27.6	10.0	07/03/2012	ND	201	101	200	0.257	

Surrogate: 1-Chlorooctane 86.8 % 65.2-140
Surrogate: 1-Chlorooctadecane 98.0 % 63.6-154
Sample ID: SB 4 @ 20' (H201483-24)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3680	16.0	07/03/2012	ND	416	104	400	0.00	

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Analytical Results For:

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 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

Received:	06/29/2012	Sampling Date:	06/28/2012
Reported:	07/06/2012	Sampling Type:	Soil
Project Name:	MESCALERO SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUTTON MESA ROAD		

Sample ID: SB 4 @ 30' (H201483-25)

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/06/2012	ND	1.86	93.0	2.00	2.48	
Toluene*	<0.050	0.050	07/06/2012	ND	1.88	94.2	2.00	3.45	
Ethylbenzene*	<0.050	0.050	07/06/2012	ND	1.93	96.5	2.00	4.32	
Total Xylenes*	<0.150	0.150	07/06/2012	ND	5.81	96.8	6.00	3.92	

Surrogate: 4-Bromofluorobenzene (PID) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4160	16.0	07/03/2012	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: AM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/03/2012	ND	193	96.5	200	1.57	
DRO >C10-C28	34.6	10.0	07/03/2012	ND	201	101	200	0.257	

Surrogate: 1-Chlorooctane 88.6 % 65.2-140
Surrogate: 1-Chlorooctadecane 102 % 63.6-154
Sample ID: SB 4 @ 40' (H201483-26)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5200	16.0	07/03/2012	ND	416	104	400	0.00	

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 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

Received:	06/29/2012	Sampling Date:	06/28/2012
Reported:	07/06/2012	Sampling Type:	Soil
Project Name:	MESCALERO SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUTTON MESA ROAD		

Sample ID: SB 4 @ 50' (H201483-27)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2320	16.0	07/03/2012	ND	416	104	400	0.00	

Sample ID: SB 4 @ 57' (H201483-28)

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/06/2012	ND	1.86	93.0	2.00	2.48	
Toluene*	<0.050	0.050	07/06/2012	ND	1.88	94.2	2.00	3.45	
Ethylbenzene*	<0.050	0.050	07/06/2012	ND	1.93	96.5	2.00	4.32	
Total Xylenes*	<0.150	0.150	07/06/2012	ND	5.81	96.8	6.00	3.92	

Surrogate: 4-Bromofluorobenzene (PID) 101 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	07/03/2012	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: AM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/03/2012	ND	193	96.5	200	1.57	
DRO >C10-C28	<10.0	10.0	07/03/2012	ND	201	101	200	0.257	

Surrogate: 1-Chlorooctane 89.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 102 % 63.6-154

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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

Kathy Purvis

From: Cliff P. Brunson <cbrunson@bbcinternational.com>
Sent: Saturday, April 26, 2014 4:00 PM
To: Geoffrey Leking
Cc: C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: OXY-Mescalero SWD-Remediation Plan
Attachments: Remediation Packet 2- Mescalero SWD.pdf

Geoff,

This e-mail is to confirm our conversation on April 25, 2014 about the remediation plan for the above referenced site. I have attached the materials that we used in our discussion. As discussed, Oxy will excavate to a depth of 5 feet in the entire leak area that is depicted on the attached site diagram and an additional 5 feet (10 feet total) in the area of SP2. A compacted clay liner will then be installed across the entire excavation area and then the site will then be backfilled with clean soil.

If you would please e-mail your concurrence with this remediation plan, it would be greatly appreciated.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS
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World-Wide Environmental Specialists
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